TAW

Access DB# 93684

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: 12 6	1 Tomen	Examiner # . 6963	O Date: 5/9/63
Requester's Full Name: 72 6 Art Unit: 76 7 Phone	Number 30 8 - 07	32 Serial Number: 0	19/626,566
Mail Box and Bldg/Room Location	on: <u>//<i>36</i>/</u> Re	sults Format Preferred (circ	le): PAPER DISK E-MA
	11011	•	
If more than one search is sub	mitted, please priori		need.
Please provide a detailed statement of the			subject matter to be searched.
Include the elected species or structures	, keywords, synonyms, acr	onyms, and registry numbers, ar	d combine with the concept or
utility of the invention. Define any term known. Please attach a copy of the cove			vant citations, authors, etc, if
Title of Invention:			
Inventors (please provide full names):	· <u> </u>		
		,	
Earliest Priority Filing Date:			
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For Sequence Searches Only Please incappropriate serial number.	iuae aii periineni injormatioi	n (parent, cnua, atvistonat, or issue	a patent numbers) along with the
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		Jan Delaval Reference Librarian	•
	Biote	chnology & Chemical Library	
		M1 1E07 – 703-308-4498 jan.delaval@uspto.gov	
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STAFF USE ONLY	Type of Search	Vendors and cost	where applicable
Searcher:	NA Sequence (#)	STN	
Searcher Phone #: 79498	AA Sequence (#)	_ Dialog	
Searcher Location:	Structure (#)	Questel/Orbit	
Date Searcher Picked Up: 5/75/03	Bibliographic	Dr.Link	· · · · · · · · · · · · · · · · · · ·
Date Campleted: 5/25/3	Litigation	Lexis/Nexis	
Searcher Prep & Review Time:	Fulltext	Sequence Systems	
Clerical Prep Time: 20	Patent Family	WWW/Internet	
Online Time: + #D	Other	Other (specify)	

PTO-1590 (8-01)



STIC Search Report Biotech-Chem Library

STIC Database Tracking Number: 93688

TO: Ralph J Gitomer

Location: 11b01 / 11d11 Sunday, May 25, 2003

Au: 1651

Serial Number: 09 / 626566

From: Jan Delaval

Location: Biotech-Chem Library

CM1-1E07

Phone: 308-4498

jan.delaval@uspto.gov

Search Notes

Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CM1 1E07 - 703-308-4498
ian.delaval@uspto.gov



BioTech-Chem Library Search Results Feedback Form (Optional)



The search results generated for your recent request are attached. If you have any questions or comments (compliments or complaints) about the scope or the results of the search, please contact *the BioTech-Chem searcher* who conducted the search *or contact*:

Mary Hale, Supervisor, 308-4258 CM-1 Room 1E01

Volu	ntary Results Feedback Form
>	I am an examiner in Workgroup: (Example: 1610)
>	Relevant prior art found, search results used as follows:
	102 rejection
	103 rejection
	Cited as being of interest.
	Helped examiner better understand the invention.
	Helped examiner better understand the state of the art in their technology.
	Types of relevant prior art found:
	Foreign Patent(s)
	Non-Patent Literature (journal articles, conference proceedings, new product announcements etc.)
>	Relevant prior art not found:
	Results verified the lack of relevant prior art (helped determine patentability).
	Search results were not useful in determining patentability or understanding the invention.
Other	Comments:

Drop off completed forms at the Circulation Desk CM-1, or send to Mary Hale, CM1-1E01 or e-mail mary.hale@uspto.gov.

=> fil reg FILE 'REGISTRY' ENTERED AT 11:37:54 ON 25 MAY 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 23 MAY 2003 HIGHEST RN 519387-75-8 DICTIONARY FILE UPDATES: 23 MAY 2003 HIGHEST RN 519387-75-8

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> d his

L1

L26

(FILE 'HOME' ENTERED AT 11:09:25 ON 25 MAY 2003) SET COST OFF

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FILE 'HCAPLUS' ENTERED AT 11:09:44 ON 25 MAY 2003

E US99-146648/AP, PRN

1 S E5

E WO2000-US20429/AP, PRN
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FILE 'REGISTRY' ENTERED AT 11:10:23 ON 25 MAY 2003 L479 S E1-E79 L5 43 S L4 AND NC5-C6-C6/ES 34 S L5 AND 46.150.18/RID L6 9 S L5 NOT L6 L7 1.8 12 S L6 AND P/ELS L9 0 S L8 AND NA/ELS L10 2 S L8 AND S/ELS 22 S L6 NOT L8 L11 L12 5 S 324762-33-6 OR 324762-36-9 OR 324762-39-2 OR 324762-43-8 OR 3 L13 0 S C26H24N011PS 155 S NC5-C6-C6/ES AND 46.150.18/RID AND OC5/ES L14 L15 86 S L14 AND 5/NR L16 17 S L15 AND IUM 64 S L15 AND 2508.108/RID NOT L16 L17"

L18 57 S 2508.108/RID AND 46.150.18/RID AND (P AND S)/ELS AND 4/NR SEL RN L12

L19 4 S E80-E84/CRN

L20 9 S L12,L19 L21 STR

L22 3 S L21 L23 100 S L21 FUL

SAV L23 GITOMER626/A

L24 STR L21 L25 0 S L24 CSS SAM SUB=L23

29 S L24 CSS SAM SUB=L23

Jan Delaval
Reference Librarian
Biotechnology & Chemical Library
CM1 1E07 – 703-308-4498

jan.delaval@uspto.gov

SAV L26 GITOMER626A/A

11 S L23 AND P/ELS L27

0 S L23 AND (OC4 OR OC5)/ES L28

L29 · 11 S L20, L27

21 S L26 NOT L29

L31 68 S L23 NOT L26, L29

FILE 'HCAOLD' ENTERED AT 11:37:22 ON 25 MAY 2003

L32 0 S L29

L30

FILE 'USPATFULL, USPAT2' ENTERED AT 11:37:26 ON 25 MAY 2003

L33 0 S L29

FILE 'HCAPLUS' ENTERED AT 11:37:31 ON 25 MAY 2003

L34 1 S L29

FILE 'REGISTRY' ENTERED AT 11:37:54 ON 25 MAY 2003

=> d sta que 126 L21 STR

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VAR G1=O/N/S NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

G1

GRAPH ATTRIBUTES:

RSPEC 10

NUMBER OF NODES IS 18

STEREO ATTRIBUTES: NONE

L23

100 SEA FILE=REGISTRY SSS FUL L21

L24 STR

VAR G1=25/26/27 VAR G2=AK/20 NODE ATTRIBUTES: CONNECT IS M1 RC AT 18 25 CONNECT IS M1 RC AT CONNECT IS M1 RC AT 26 CONNECT IS M1 RC AT 27 DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC 10
NUMBER OF NODES IS 2

STEREO ATTRIBUTES: NONE

L26 29 SEA FILE=REGISTRY SUB=L23 CSS FUL L24

100.0% PROCESSED 100 ITERATIONS 29 ANSWERS SEARCH TIME: 00.00.01

=> d ide can tot 129

L29 ANSWER 1 OF 11 REGISTRY COPYRIGHT 2003 ACS

RN 324762-62-1 REGISTRY

CN Acridinium, 2-[(dimethoxyphosphinyl)oxy]-9-[[2,6-dimethyl-4-[(phenylmethoxy)carbonyl]phenoxy]carbonyl]-10-(4-sulfobutyl)-, inner salt (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C36 H36 N O11 P S .

SR CA

LC STN Files: CA, CAPLUS

Clami 43 H, no methody

Fig 1 I has nutrops

#4 pg 10

no substituents on P

uguples have mettros

all excuple + clame Na - not found no engar found p10 spec us crups

1 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 134:159459

L29 ANSWER 2 OF 11 REGISTRY COPYRIGHT 2003 ACS

RN 324762-61-0 REGISTRY

CN 9-Acridinecarboxylic acid, 2-[(dimethoxyphosphinyl)oxy]-,
2,6-dimethyl-4-[(phenylmethoxy)carbonyl]phenyl ester (9CI) (CA INDEX NAME)

MF C32 H28 N O8 P

SR CA

LC STN Files: CA, CAPLUS

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1957 TO DATE)

1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 134:159459

L29 ANSWER 3 OF 11 REGISTRY COPYRIGHT 2003 ACS

RN 324762-46-1 REGISTRY

CN Acridinium, 9-[(4-carboxy-2,6-dimethylphenoxy)carbonyl]-2-methoxy-10-methyl-7-(phosphonooxy)-, salt with trifluoroacetic acid (1:1) (9CI) (CA INDEX NAME)

MF C25 H23 N O9 P . C2 F3 O2

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 324762-45-0 CMF C25 H23 N O9 P

CM 2

CRN 14477-72-6 CMF C2 F3 O2

1 REFERENCES IN FILE CA (1957 TO DATE)

1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 134:159459

L29 ANSWER 4 OF 11 REGISTRY COPYRIGHT 2003 ACS

RN **324762-45-0** REGISTRY

CN Acridinium, 9-[(4-carboxy-2,6-dimethylphenoxy)carbonyl]-2-methoxy-10-methyl-7-(phosphonooxy)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C25 H23 N O9 P

CI COM

SR CA

L29 ANSWER 5 OF 11 REGISTRY COPYRIGHT 2003 ACS
RN 324762-43-8 REGISTRY
CN Acridinium, 9-[(4-carboxy-2,6-dimethylphenoxy)carbonyl]-2-(phosphonooxy)10-(4-sulfobutyl)-, inner salt (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C27 H26 N O11 P S

SR CA

LC STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 134:159459

L29 ANSWER 6 OF 11 REGISTRY COPYRIGHT 2003 ACS

RN 324762-40-5 REGISTRY

CN Acridinium, 10-methyl-9-(phenoxycarbonyl)-2-(phosphonooxy)-, salt with trifluoroacetic acid (1:1) (9CI) (CA INDEX NAME)

MF C21 H17 N O6 P . C2 F3 O2

SR CA

LC STN Files: CA, CAPLUS

CRN 324762-39-2 CMF C21 H17 N O6 P

CM 2

CRN 14477-72-6 CMF C2 F3 O2

1 REFERENCES IN FILE CA (1957 TO DATE)

1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 134:159459

L29 ANSWER 7 OF 11 REGISTRY COPYRIGHT 2003 ACS

RN 324762-39-2 REGISTRY

CN Acridinium, 10-methyl-9-(phenoxycarbonyl)-2-(phosphonooxy)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C21 H17 N O6 P

CI COM

SR CA

L29 ANSWER 8 OF 11 REGISTRY COPYRIGHT 2003 ACS

RN 324762-37-0 REGISTRY

CN Acridinium, 9-[[2,6-dimethyl-4-[(phenylmethoxy)carbonyl]phenoxy]carbonyl]-

10-methyl-2-(phosphonooxy)-, salt with trifluoroacetic acid (1:1) (9CI) (CA INDEX NAME)

MF C31 H27 N O8 P . C2 F3 O2

SR CA

LÇ STN Files: CA, CAPLUS

CM

CRN 324762-36-9 CMF C31 H27 N O8 P

CM

14477-72-6 CRN CMF C2 F3 O2

1 REFERENCES IN FILE CA (1957 TO DATE) 1 REFERENCES IN FILE CAPLUS (1957 TO DATE)

REFERENCE 1: 134:159459

ANSWER 9 OF 11 REGISTRY COPYRIGHT 2003 ACS L29

RN

324762-36-9 REGISTRY Acridinium, 9-[[2,6-dimethyl-4-[(phenylmethoxy)carbonyl]phenoxy]carbonyl]-CN 10-methyl-2-(phosphonooxy)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C31 H27 N O8 P

CI COM

SR CA

L29 ANSWER 10 OF 11 REGISTRY COPYRIGHT 2003 ACS

RN 324762-34-7 REGISTRY

CN Acridinium, 9-[(4-carboxy-2,6-dimethylphenoxy)carbonyl]-10-methyl-2-(phosphonooxy)-, salt with trifluoroacetic acid (1:1) (9CI) (CA INDEX NAME)

MF C24 H21 N O8 P . C2 F3 O2

SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 324762-33-6 CMF C24 H21 N O8 P

CM 2

CRN 14477-72-6 CMF C2 F3 O2

1 REFERENCES IN FILE CA (1957 TO DATE)
1 REFERENCES IN FILE CAPLUS (1957 TO DATE).

REFERENCE 1: 134:159459

L29 ANSWER 11 OF 11 REGISTRY COPYRIGHT 2003 ACS

RN **324762-33-6** REGISTRY

CN Acridinium, 9-[(4-carboxy-2,6-dimethylphenoxy)carbonyl]-10-methyl-2-(phosphonooxy)- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C24 H21 N O8 P

CI COM

SR CA

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FILE COVERS 1907 - 25 May 2003 VOL 138 ISS 22 FILE LAST UPDATED: 23 May 2003 (20030523/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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ANSWER 1 OF 1 HCAPLUS
                             COPYRIGHT 2003 ACS
L34
     2001:101348 HCAPLUS
ΑN
     134:159459
DN
     Chemiluminescent substrates of hydrolytic enzymes such as phosphatases
ΤI
     Jiang, Qingping; Natrajan, Anand; Sharpe, David J.; Wong, Wen-jee; Law,
IN
     Say-jong
PA
     Bayer Corporation, USA
     PCT Int. Appl., 156 pp.
SO
     CODEN: PIXXD2
DT
     Patent
     English
LA
     ICM C120001-42
IC
     ICS C07D219-06
CC
     7-1 (Enzymes)
     Section cross-reference(s): 9, 27, 28
FAN.CNT 1
                                                             DATE
                                            APPLICATION NO.
     PATENT NO.
                      KIND
                            DATE
                                            WO 2000-US20429
                             20010208
                                                             20000727
PΙ
     WO 2001009372
                       Α1
             AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
             HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT,
             LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU,
             SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
             YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ,
                     CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
             CF, CG,
                            20020508
                                            EP 2000-950764
                                                             20000727
     EP 1203091
                       Α1
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL
                            19990730
PRAI US 1999-146648P
                       Р
                            20000727
                       W
     WO 2000-US20429
     MARPAT 134:159459
OS
GΙ
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AB Chemiluminescent substrates of hydrolytic enzymes are disclosed having the general Formula Lumi-M-P, where Lumi is a chemiluminescent moiety capable of producing light (a) by itself, (b) with MP attached and (c) with M

Ι

attached, wherein the different properties of Lumi-M-P and Lumi-M allow them to be distinguished. Lumi includes, but is not limited to, acridinium compds. (e.g. acridinium esters, carboxyamides, thioesters, and oxime esters), reduced forms thereof (e.g. acridans), and spiroacridan compds. M is selected from oxygen, nitrogen and sulfur. P is a group that can be readily removed by hydrolytic enzymes to give Lumi-M and P. The hydrolytic enzyme can be phosphatase, glycosidase, peptidase, protease, esterase, sulfatase, and guanidinobenzoatase. Thus, 2-Phos-DMAE (I) is synthesized and shown to be an excellent substrate of hydrolytic alk. phosphatase to form 2-OH-DMAE. Both I and 2-OH-DMAE are chemiluminescent, but emit light light at different emission maxima when they are treated with H2O2 in strong alk. soln. I emits a strong, visible blue light at .lambda.max 478 nm while 2-OH-DMAE emits a strong, visible orange light at .lambda.max 602 nm, thus resulting in a bathochromic shift of emission max. by 128 nm. One of the advantages in using chemiluminescent acridinium substrates like I to detect hydrolytic enzymes is that the products generated by the enzyme can be accumulated without undergoing significant decompn. during the enzymic reaction. In addn., under certain conditions the chemiluminescence from I is selectively and significantly suppressed, and thereby the overall signal differentiation of 2-OH-DMAE over I is improved. A heterogeneous immunoassay is also provided demonstrating I utility as a substrate for the chemiluminescent detection of TSH in human serum.

ST hydrolytic enzyme assay chemiluminescent substrate; acridinium chemiluminescent substrate hydrolytic enzyme assay; phosphatase assay chemiluminescent acridinium substrate

IT Immunoassay

(TSH detection in human serum using acridinium substrate of alk. phosphatase; chemiluminescent substrates of hydrolytic enzymes such as phosphatases)

IT Onium compounds

RL: ARG (Analytical reagent use); BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)

(acridinium; chemiluminescent substrates of hydrolytic enzymes such as phosphatases)

IT Luminescence, chemiluminescence

(chemiluminescent substrates of hydrolytic enzymes such as phosphatases)

IT Onium compounds

RL: ARG (Analytical reagent use); BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)

(isoquinolinium; chemiluminescent substrates of hydrolytic enzymes such as phosphatases)

IT Onium compounds

RL: ARG (Analytical reagent use); BPR (Biological process); BSU (Biological study, unclassified); SPN (Synthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)

(quinolinium; chemiluminescent substrates of hydrolytic enzymes such as phosphatases)

IT 9001-78-9 9001-92-7, Proteinase 9013-05-2, Phosphatase 9013-79-0, Esterase 9027-41-2, Hydrolytic enzymes 9031-96-3, Peptidase 9032-92-2, Glycosidase 9068-67-1, Sulfatase 84419-03-4, Guanidinobenzoatase

RL: ANT (Analyte); ANST (Analytical study)

(chemiluminescent substrates of hydrolytic enzymes such as phosphatases)

IT 324762-34-7P 324762-52-9P 324762-55-2P 324762-58-5P RL: ARG (Analytical reagent use); BPR (Biological process); BSU

```
(Biological study, unclassified); PRP (Properties); SPN (Synthetic
    preparation); ANST (Analytical study); BIOL (Biological study); PREP
     (Preparation); PROC (Process); USES (Uses)
        (chemiluminescent substrates of hydrolytic enzymes such as
        phosphatases)
                                   229-87-8DP, Phenanthridine, compds.
     92-81-9DP, Acridan, compds.
     260-94-6DP, Acridine, compds.
                                     521-31-3DP, Luminol, compds.
     2315-97-1DP, Lucigenin, compds.
                                       3682-14-2DP, Isoluminol, compds.
     12041-95-1DP, Benzacridine, compds.
    RL: ARG (Analytical reagent use); BPR (Biological process); BSU
     (Biological study, unclassified); SPN (Synthetic preparation); ANST
     (Analytical study); BIOL (Biological study); PREP (Preparation); PROC
     (Process); USES (Uses)
        (chemiluminescent substrates of hydrolytic enzymes such as
        phosphatases)
     324762-37-0P
                    324762-38-1P
                                   324762-42-7P
                                                  324762-59-6P
    RL: ARG (Analytical reagent use); PRP (Properties); RCT (Reactant); SPN
     (Synthetic preparation); ANST (Analytical study); PREP (Preparation); RACT
     (Reactant or reagent); USES (Uses)
        (chemiluminescent substrates of hydrolytic enzymes such as
        phosphatases)
     324762-35-8P 324762-40-5P 324762-43-8P
                                              324762-44-9P
                                   324762-49-4P
                                                  324762-50-7P
     324762-46-1P
                    324762-48-3P
     324762-54-1P
                    324762-56-3P
    RL: ARG (Analytical reagent use); PRP (Properties); SPN (Synthetic
    preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
        (chemiluminescent substrates of hydrolytic enzymes such as
        phosphatases)
                     100-39-0, Benzyl bromide
                                                  104-92-7, 4-Bromoanisole
     91-56-5, Isatin
    106-41-2, 4-Bromophenol 123-31-9, Hydroquinone, reactions
     4-Iodophenol
                    1633-83-6, 1,4-Butanesultone
                                                   3970-21-6,
    Methoxyethoxymethyl chloride
                                   5336-90-3, Acridine-9-carboxylic acid
     6272-38-4, 2-(Benzyloxy)phenol
                                     17789-14-9, 2-(3-Bromophenyl)-1,3-
                 39755-95-8, 5-Methoxyisatin 115853-69-5
    RL: RCT (Reactant); RACT (Reactant or reagent)
        (chemiluminescent substrates of hydrolytic enzymes such as
       phosphatases)
     6793-92-6P, 4-Benzyloxybromobenzene
                                           108534-47-0P
                                                          112934-63-1P
    130266-57-8P, 2-Methoxy-acridine-9-carboxylic acid
                                                          161006-15-1P
    199190-18-6P
                    221057-35-8P
                                   221057-36-9P
                                                  259169-12-5P
                                                                 259169-13-6P
    259169-43-2P
                    259169-44-3P
                                   259169-45-4P
                                                  324762-60-9P
    324762-61-0P 324762-62-1P
                                 324762-63-2P
                                                324762-64-3P
                    324762-66-5P
                                   324762-67-6P
    324762-65-4P
                                                  324762-69-8P
                                                                 324762-70-1P
    324762-71-2P
                    324762-72-3P
                                   324762-74-5P
                                                  324762-75-6P
                                                                 324762-76-7P
    324762-77-8P
                    324762-79-0P
    RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
     (Reactant or reagent)
        (chemiluminescent substrates of hydrolytic enzymes such as
       phosphatases)
    9002-71-5, TSH
    RL: ANT (Analyte); ANST (Analytical study)
        (detection in human serum using acridinium substrate of alk.
       phosphatase; chemiluminescent substrates of hydrolytic enzymes such as
       phosphatases)
RE.CNT
             THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
(1) Akhavan-Tafti, H; US 5772926 A 1998 HCAPLUS
(2) Bayer Ag; WO 0009487 A 2000 HCAPLUS
(3) Corey, P; US 4810636 A 1989 HCAPLUS
(4) Renault, J; EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY - CHIMICA THERAPEUTICA
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(5) Say-Jong, L; US 4745181 A 1988 HCAPLUS

1981, V16(1), P24 HCAPLUS

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(6) Sotiriou-Leventis, O; US 5656426 A 1997 HCAPLUS

(7) Syntex Inc; WO 9402486 A 1994 HCAPLUS

IT 324762-34-7P

RL: ARG (Analytical reagent use); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)

(chemiluminescent substrates of hydrolytic enzymes such as phosphatases)

RN 324762-34-7 HCAPLUS

CN Acridinium, 9-[(4-carboxy-2,6-dimethylphenoxy)carbonyl]-10-methyl-2-(phosphonooxy)-, salt with trifluoroacetic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 324762-33-6 CMF C24 H21 N O8 P

CM 2

CRN 14477-72-6 CMF C2 F3 O2

IT 324762-37-0P

RL: ARG (Analytical reagent use); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(chemiluminescent substrates of hydrolytic enzymes such as phosphatases)

RN 324762-37-0 HCAPLUS

CN Acridinium, 9-[[2,6-dimethyl-4-[(phenylmethoxy)carbonyl]phenoxy]carbonyl]10-methyl-2-(phosphonooxy)-, salt with trifluoroacetic acid (1:1) (9CI)
(CA INDEX NAME)

CRN 324762-36-9 CMF C31 H27 N O8 P

CM 2

CRN 14477-72-6 CMF C2 F3 O2

IT 324762-40-5P 324762-43-8P 324762-46-1P

RL: ARG (Analytical reagent use); PRP (Properties); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses) (chemiluminescent substrates of hydrolytic enzymes such as phosphatases)

RN 324762-40-5 HCAPLUS

CN Acridinium, 10-methyl-9-(phenoxycarbonyl)-2-(phosphonooxy)-, salt with trifluoroacetic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN. 324762-39-2 CMF C21 H17 N O6 P

CRN 14477-72-6 CMF C2 F3 O2

RN 324762-43-8 HCAPLUS

CN Acridinium, 9-[(4-carboxy-2,6-dimethylphenoxy)carbonyl]-2-(phosphonooxy)-10-(4-sulfobutyl)-, inner salt (9CI) (CA INDEX NAME)

RN · 324762-46-1 HCAPLUS

CN Acridinium, 9-[(4-carboxy-2,6-dimethylphenoxy)carbonyl]-2-methoxy-10-methyl-7-(phosphonooxy)-, salt with trifluoroacetic acid (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 324762-45-0 CMF C25 H23 N O9 P

CRN 14477-72-6 CMF C2 F3 O2

IT 324762-61-0P 324762-62-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
 (chemiluminescent substrates of hydrolytic enzymes such as
 phosphatases)

RN 324762-61-0 HCAPLUS

CN 9-Acridinecarboxylic acid, 2-[(dimethoxyphosphinyl)oxy]-, 2,6-dimethyl-4-[(phenylmethoxy)carbonyl]phenyl ester (9CI) (CA INDEX NAME)

RN

324762-62-1 HCAPLUS
Acridinium, 2-[(dimethoxyphosphinyl)oxy]-9-[[2,6-dimethyl-4[(phenylmethoxy)carbonyl]phenoxy]carbonyl]-10-(4-sulfobutyl)-, inner salt
(9CI) (CA INDEX NAME) CN

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AL PURPOSE OF THE PROPERTY OF

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(FILE 'HOME' ENTERED AT 11:47:13 ON 25 MAY 2003)
                SET COST OFF
     FILE 'HCAPLUS' ENTERED AT 11:47:24 ON 25 MAY 2003
              1 S 134:159459/DN
L1
                SEL RN
     FILE 'REGISTRY' ENTERED AT 11:47:34 ON 25 MAY 2003
             79 S E1-E79
L2
             O S L2 AND NA/ELS
L3
     FILE 'HCAPLUS' ENTERED AT 11:47:44 ON 25 MAY 2003
               E NATRAJAN A/AU
             21 S E3, E4
L4
                E SHARPE D/AU
              8 S E3, E7
L5
              7 S E15, E19
L6
                E LAW S/AU
             25 S E3, E13
L7
             38 S E30
\Gamma8
                E WONG W/AU
             46 S E3,E8
Ь9
              E WONG WEN/AU
              1 S E7
L10
               E JIANG Q/AU
            162 S E3
L11
               E JIANG QING/AU .
            157 S E3, E8
L12
             31 S E29
L13
             22 S ENZYM?/SC, SX, CW, BI AND L4-L13
L14
             17 S ?ACRIDIN? AND L4-L13
L15
             24 S ?LUMINES? AND L4-L13
L16
             31 S HET?/SC, SX AND L4-L13
L17
             64 S L14-L17 NOT L1
L18
                E ONIUM/CT
             14 S E4+NT AND L4-L13
L19
             13 S L19 NOT L1
L20
             69 S L18, L20
L21
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            SEL L21 1- RN : 844 TERMS
L22
                 SET SMARTSELECT OFF
     FILE 'REGISTRY' ENTERED AT 11:51:18 ON 25 MAY 2003
             844 S L22
L23
             154 S L23 AND NC5-C6-C6/ES
L24
              2 S L24 AND P/ELS
L25
              3 S L24 AND (OC4 OR OC5)/ES
L26
             149 S L24 NOT L25, L26
L2.7
            126 S L27 AND 46.150.18/RID
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1 S L24 AND NA/ELS